

AMENDMENTS TO THE CLAIMS

1. Claims 1 – 70 (Canceled)
71. (Currently amended) A jet fuel composition comprising a base fuel and at least one additive wherein the additive comprises:
 - a plant oil extract derived from grain;
 - a carotenoid; and
 - a thermal stabilizer.
72. (Currently amended) The jet fuel composition of claim 71, wherein the grain is selected from the group consisting of fescue, clover, wheat, barley, oats, rye, sorghum, flax, triticale, rice, corn, spelt, millet, amaranth, buckwheat, quinoa, kamut and teff.
73. (Currently amended) The jet fuel composition of claim 71 wherein the carotenoid is selected from the group consisting of β -carotene, α -carotene, lycopene, leutin, betatene and mixtures thereof.
74. (Currently amended) The jet fuel composition of claim 71, wherein the thermal stabilizer is selected from the group consisting of vegetable oils, nut oils, animal oils and mixtures thereof.
75. (Currently amended) The jet fuel composition of claim 71 wherein the plant oil extract is derived from barley and the carotenoid is β -carotene.
76. (Currently amended) The jet fuel composition of claim 71 wherein the thermal stabilizer is meadowfoam oil.
77. (Currently amended) The jet fuel composition of claim 71 further comprising a diluent.
78. (Currently amended) The jet fuel composition of claim 71 further comprising a solvent selected from the group consisting of toluene, benzene, o-xylene, m-xylene, p-xylene, cyclohexanes, hexane,

octanes, nonanes, ~~jet fuel~~, diesel fuel, gasoline, 2 cycle oil and resid fuel and mixtures thereof.

79. (Currently amended) The jet fuel composition of claim 71 further comprising at least one additive selected from the group consisting of octane improvers, cetane improvers, detergents, corrosion inhibitors, metal deactivators, ignition accelerators, dispersants, anti-knock additives, anti-run-on additives, anti-pre-ignition additives, anti-misfire additives, anti-wear additives, antioxidants, demulsifiers, carrier fluids, solvents, fuel economy additives, emission reduction additives, lubricity improvers, oxygenates and mixtures thereof.
80. (Canceled)
81. (Currently amended) A jet fuel composition comprising a base fuel and at least one additive wherein the additive comprises:
 - a hydrophobic plant oil extract;
 - a carotenoid; and
 - a thermal stabilizer selected from the group consisting of peanut oil, cottonseed oil, rape seed oil, macadamia oil, avocado oil, palm oil, palm kernel oil, meadowfoam oil and mixtures thereof.
82. (Currently amended) The jet fuel composition of claim 81 wherein the plant oil extract is derived from a member of the Leguminosae family.
83. (Currently amended) The jet fuel composition of claim 81 wherein the plant oil extract is derived from grain.
84. (Currently amended) The jet fuel composition of claim 81 further comprising a diluent.

85. (Currently amended) The jet fuel composition of claim 81 further comprising a solvent selected from the group consisting of toluene, benzene, o-xylene, m-xylene, p-xylene, cyclohexanes, hexane, octanes, nonanes, ~~jet fuel~~, diesel fuel, gasoline, 2 cycle oil and resid fuel and mixtures thereof.
86. (Currently amended) The jet fuel composition of claim 81 further comprising at least one additive selected from the group consisting of octane improvers, cetane improvers, detergents, corrosion inhibitors, metal deactivators, ignition accelerators, dispersants, anti-knock additives, anti-run-on additives, anti-pre-ignition additives, anti-misfire additives, anti-wear additives, antioxidants, demulsifiers, carrier fluids, solvents, fuel economy additives, emission reduction additives, lubricity improvers, oxygenates and mixtures thereof.
87. (Currently amended) The jet fuel composition of claim 81, wherein the carotenoid is selected from the group consisting of β -carotene, α -carotene, lycopene, leutin, betatene and mixtures thereof.
88. (Currently amended) The jet fuel composition of claim 81 wherein the plant oil extract is barley oil extract, the carotenoid is β -carotene.
89. (Currently amended) A jet fuel composition comprising a base fuel and at least one additive wherein the additive comprises:
 - a plant oil extract selected from the group consisting of hops oil extract, fescue oil extract, barley oil extract, green clover oil extract, wheat oil extract and mixtures thereof;
 - a carotenoid; and
 - a thermal stabilizer.

90. (Currently amended) The jet fuel composition of claim 89 wherein the carotenoid is selected from the group consisting of β -carotene, α -carotene, lycopene, leutin, betatene and mixtures thereof.
91. (Currently amended) The jet fuel composition of claim 89, wherein the thermal stabilizer is selected from the group consisting of vegetable oils, nut oils, animal oils and mixtures thereof.
92. (Currently amended) The jet fuel composition of claim 89 wherein the plant oil extract is derived from barley and the carotenoid is β -carotene.
93. (Currently amended) The jet fuel composition of claim 89 wherein the thermal stabilizer is meadowfoam oil.
94. (Currently amended) The jet fuel composition of claim 89 further comprising a diluent.
95. (Currently amended) The jet fuel composition of claim 89 further comprising a solvent selected from the group consisting of toluene, benzene, o-xylene, m-xylene, p-xylene, cyclohexanes, hexane, octanes, nonanes, ~~jet fuel~~, diesel fuel, gasoline, 2 cycle oil and resid fuel and mixtures thereof.
96. (Currently amended) The jet fuel composition of claim 95 further comprising at least one additive selected from the group consisting of octane improvers, cetane improvers, detergents, corrosion inhibitors, metal deactivators, ignition accelerators, dispersants, anti-knock additives, anti-run-on additives, anti-pre-ignition additives, anti-misfire additives, anti-wear additives, antioxidants, demulsifiers, carrier fluids, solvents, fuel economy additives, emission reduction additives, lubricity improvers, oxygenates and mixtures thereof.
97. (Canceled)

98. (Canceled)
99. Canceled)
100. (Canceled)
101. (Canceled)
102. Claims 102 – 106 (Canceled)
107. (Previously presented) A jet fuel additive comprising
 - a hydrophobic plant oil extract;
 - a carotenoid;
 - a thermal stabilizer selected from the group consisting of peanut oil, cottonseed oil, rape seed oil, macadamia oil, avocado oil, palm oil, palm kernel oil, meadowfoam oil and mixtures thereof;
 - a solvent selected from the group consisting of toluene, benzene, o-xylene, p-xylene, m-xylene, cyclohexanes, hexane, octanes, nonanes, jet fuel, diesel fuel, gasoline, 2-cycle oil, resid fuel, and mixtures thereof.
108. (Previously presented) The additive of claim 107 wherein the plant oil extract is barley oil and the carotenoid is β -carotene.
109. (Previously presented) The additive of claim 101 wherein the thermal stabilizer is meadowfoam oil.
110. (Canceled)
111. (Canceled)
112. (Previously presented) A jet fuel additive comprising:
 - a plant oil extract from barley;
 - β -carotene; and
 - meadowfoam oil.

113. (Previously presented) The additive of claim 112 further comprising a solvent selected from the group consisting of toluene, benzene, p-xylene, m-xylene, o-xylene, cyclohexanes, hexane, octanes, nonanes, jet fuel, diesel fuel, gasoline, 2-cycle oil, resid fuel and mixtures thereof.
114. (Previously presented) A jet fuel additive comprising:
 - barley oil;
 - β -carotene; and
 - meadowfoam oil.